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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,854	07/23/2001	Jui-Hung Hsu	SUND 213	8774

23995 7590 10/09/2003

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WASHINGTON, DC 20005

EXAMINER

ZAMANI, ALI A

ART UNIT	PAPER NUMBER
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2674

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DATE MAILED: 10/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/909,854

Applicant(s)

JUI-HUNG HSU

Examiner

Ali A. Zamani

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 July 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Marshall (US Re. 31,477).

In regard to claim 1, Marshall discloses a cable (10) with shielding effect, comprising: a plurality of signal lines (12); and a plurality of micro-strip grounding pieces (11) which are interlaced with the signal lines (12) (see Fig. 2, col. 6, lines 1-5).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salerno et al. US Pat. No. 6,558,008 in view of Marshall (US Re. 31,477).

In regard to claims 2 and 3, Salerno et al. disclose a cable with shielding effect (865) used to be electrically connected with a color Thin Film Transistor (TFT) display module (col. 1, lines 33-35), wherein the color TFT display module includes a color TFT display and a grounding terminal (col. 1, lines 39-50). Salerno et al. does not disclose a "cable with a plurality of signal lines and a plurality of micro-strip grounding pieces, which are interlaced with signal lines".

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However, Marshall discloses a cable (10) with shielding effect, comprising: a plurality of signal lines (12); and a plurality of micro-strip grounding pieces (11) which are interlaced with the signal lines (12) (see Fig. 2, col. 6, lines 1-5).

Thus, it would have been obvious to one of ordinary skill in the art to utilize the cable of Marshall in the display of Salerno et al. to provide a TFT display module in such a way that its printing wiring board design and, more particularly, to a method for shielding effect cable signal (copper) lines prevents from EMI to neighboring signals.

AS to claim 4, the micro-strip grounding, which is made of copper, is well known in the art (see cited reference).

AS to claim 13, Salerno discloses a color TFT-LCD (col. 1, lines 33-35).

In regard to claims 14 and 15, those skilled in the art recognizes that the technology of TFT-LCD have been employed in various kind of computer, communication, and consumer electronic products such as desktop and notebook computers, personal digital assistant (PDA). It is well known in the art PDA can have as much computing power as some desktop personal computers and have been used in a wide variety of applications, including global position system (GPS) and packet Radio services (GPRS).

Claim Rejections - 35 USC § 103

Claims 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salerno et al. US Pat. No. 6,558,008) in view of Marshall (US Re. 31,477) and further in view of Ueda et al. (US Pat. No. 5, 838,400).

In regard to claims 5-12, Salerno and Marshall fail to disclose or suggest a color TFT display module wherein the grounding terminal is a (metallic casing, iron casing).

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However, Ueda discloses a TFT-LCD (Fig. 4) wherein the grounding terminal is a metallic casing metallic casing (Fig. 4, col. 11, lines 59-63) wherein the metallic casing is an iron casing (col. 13, lines 5-7). Those skills in the art know using copper, copper foil and gold-plated metallic grounding gold is well known in the TFT display technology. Thus, it would have been obvious to one of ordinary skill in the art to utilize the metallic and iron casing of Ueda et al. in the display of Salerno-Marshall to provide a TFT display module with shielding-effect cable to prevent grounding pieces from producing open type antenna effect.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Zamani whose telephone number is (703) 308-6414. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ali Zamani

September 26, 2003



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600